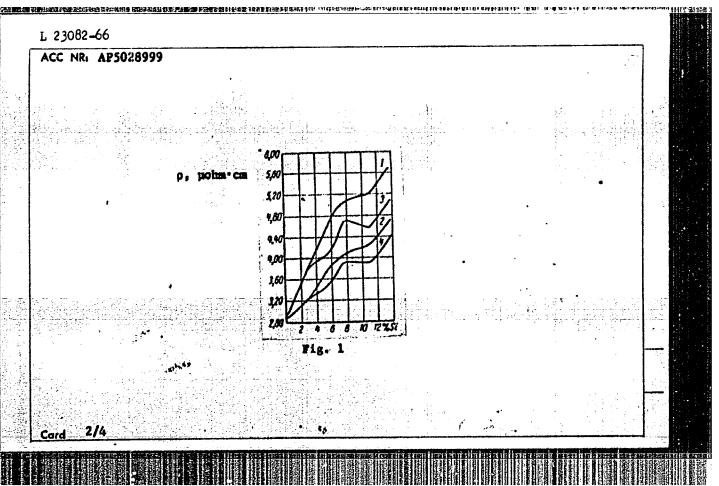
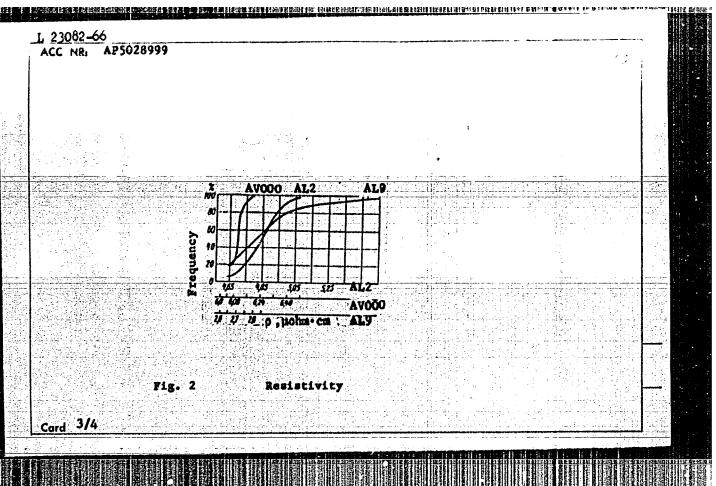
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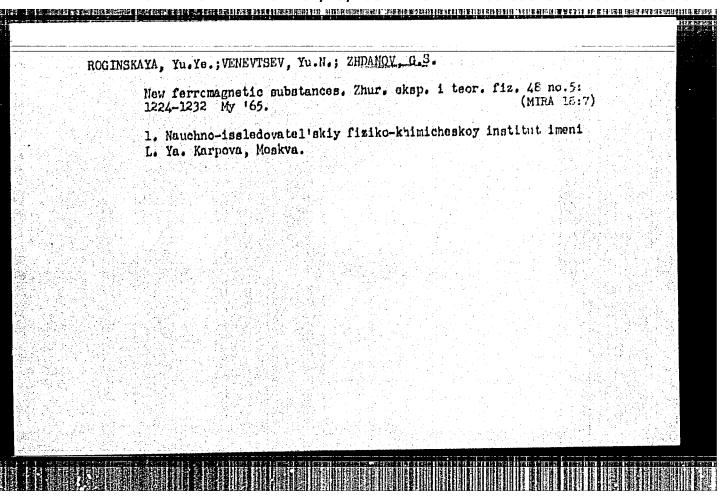
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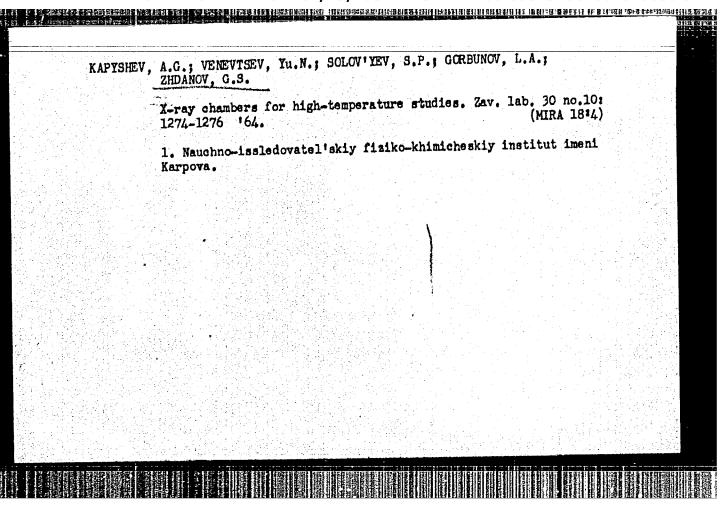
neous structure: in AL2, the grains of α -solid solution of Si in Al and a large amount of eutectic (α + Si) and in AL9, the α -solid solution and the eutectic α + Mg,Si + Si. Annealing at 290°C for 4 hr reduces by 11-18% the mean ρ of the alloys AL2 and AL9 owing to the relieving of the casting stresses, segregation of impurities into autonomous phases from the supersaturated solid solution, equalization of the chemical composition of the grains and reduction in the number of non-equilibrium vacancies owing to diffusion processes, but, contrary to the expectations it did not result in any marked decrease in the scatter of the values of ρ . Apparently, in Al-Si alloys electric properties fundamentally determine the character of structure. Of the technological factors, only mold temperature seems to have any appreciable effect on the scatter of ρ in the alloys AL2 and AL9. Thus, the alloys AL2 and AL9 may be used as rotor linings only if they do not have to meet rigid requirements as to the stability of the ρ of the "squirrel cage". Pure Al assures a stable ρ (within, +2%) but it is not as strong. Orig. art. has: 3 tables, 2 figures.

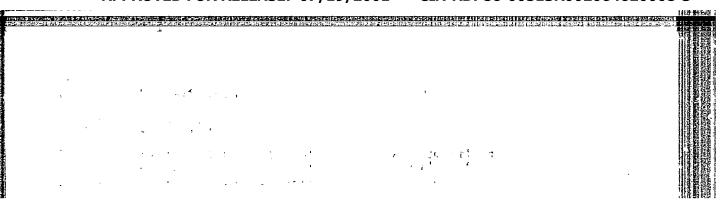
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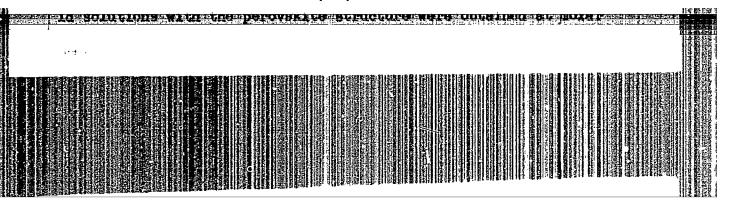


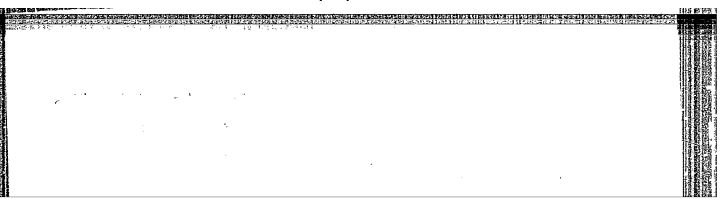
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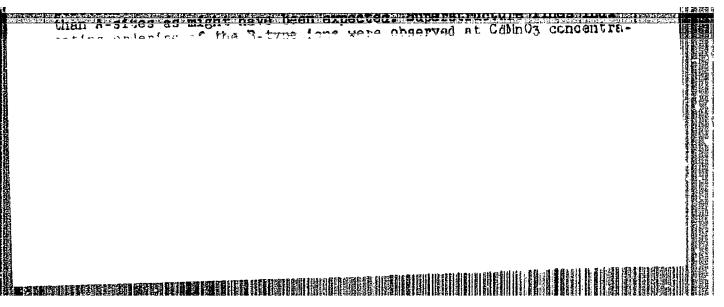


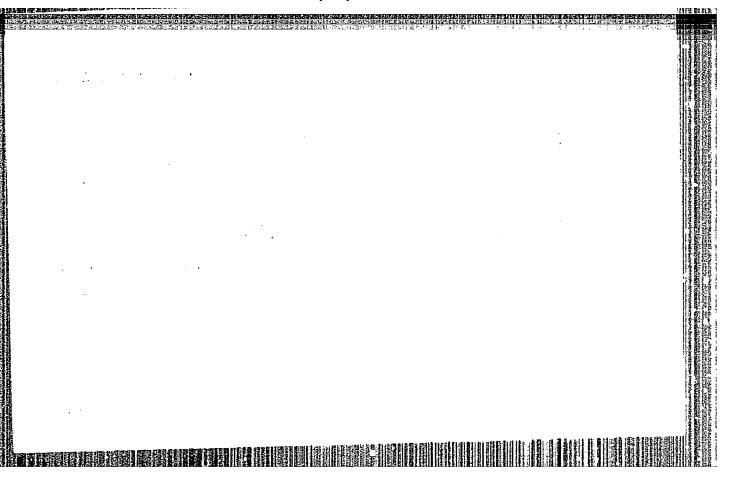


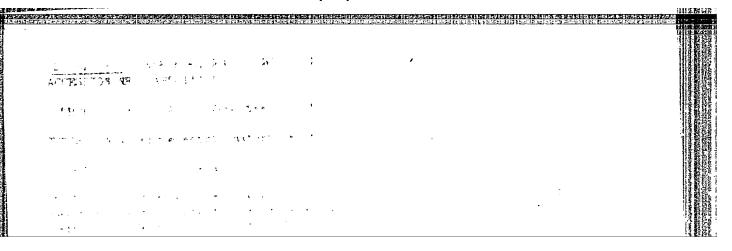
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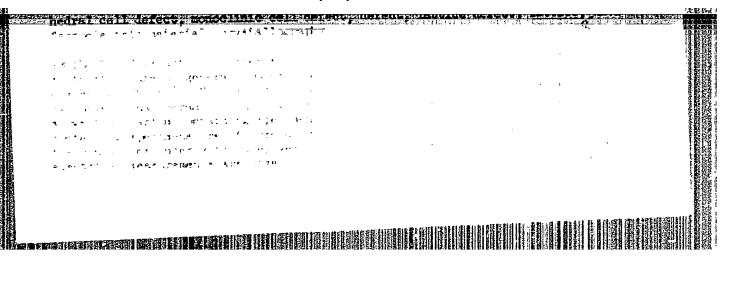


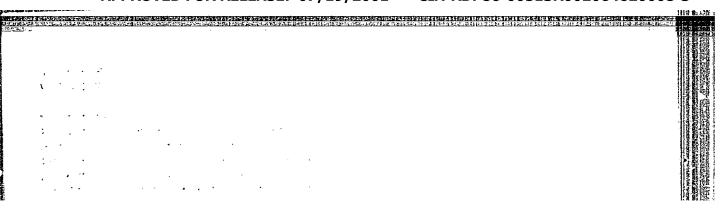


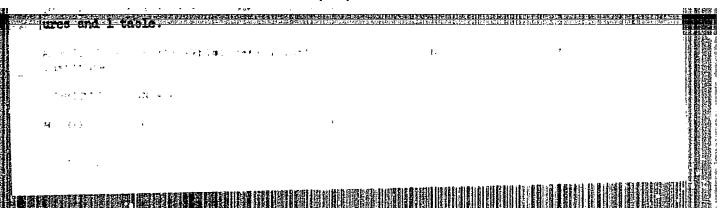


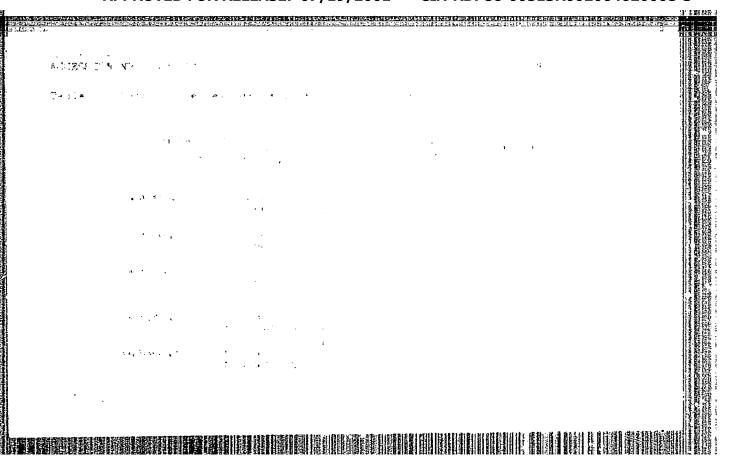


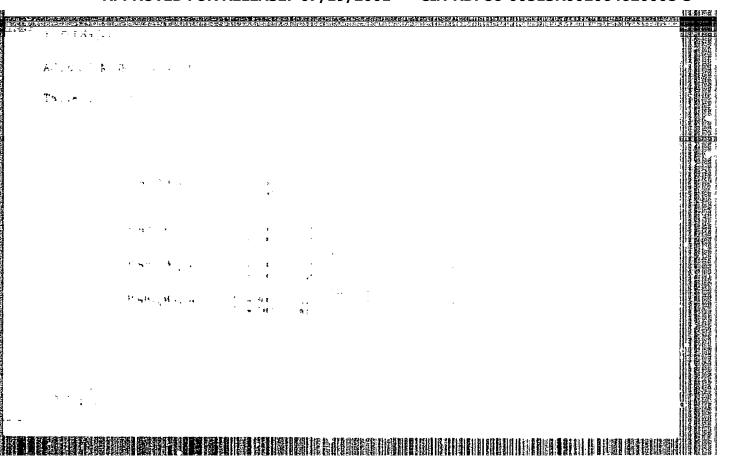


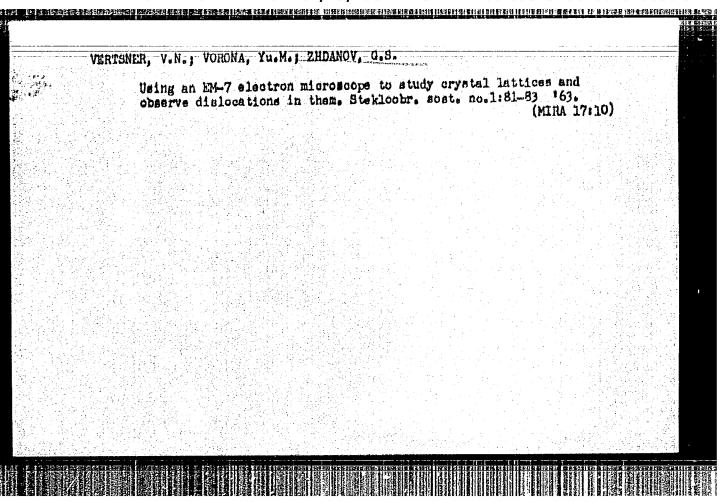










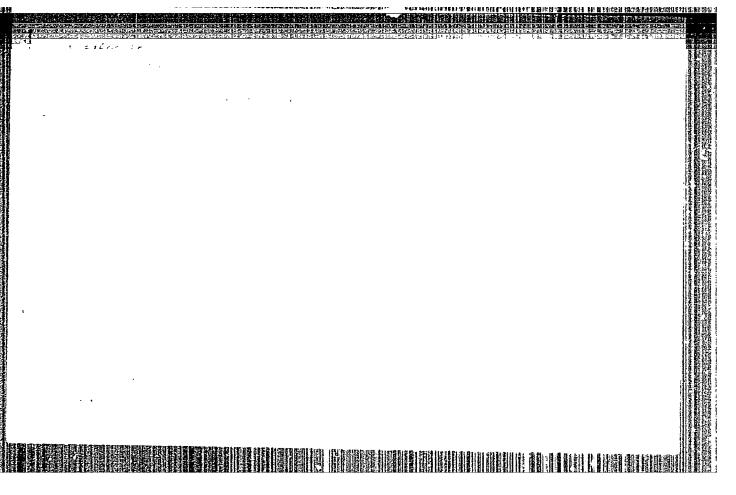


TOMASHPOL'SKIY, Yu.Ya.; VENEVTSEV, Yu.N.; ZHDANOV, G.S.

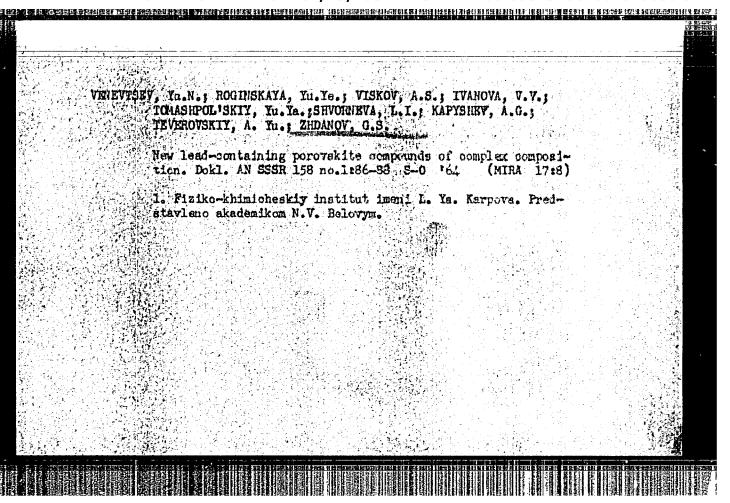
Microelectron diffract'on study of the crystalline structure of the ferromagnetic Bi Fe O₃. Kristallografiia 9 no.6:846-852 N-D '64. (MIRA 18:2)

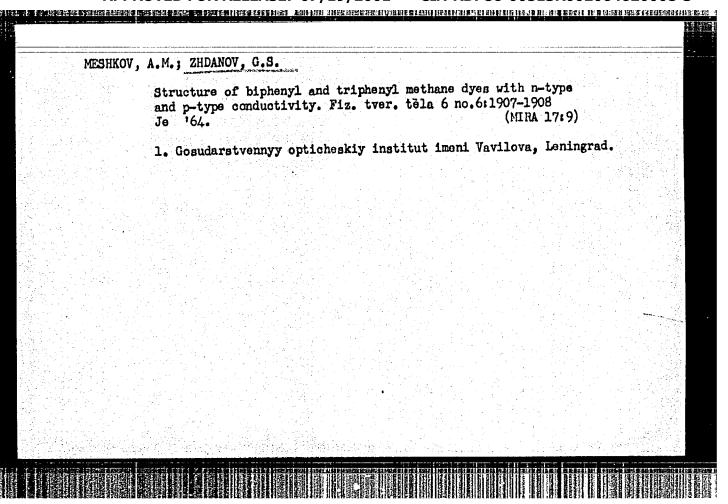
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ACCESSION NR: AT4019289

8/0000/63/003/001/0081/0083

AUTHOR: Vertaner, V. N.; Vorona, Yu.M.; Zhdanov, G. S.

TITLE: Use of the EM-7 electron microscope for the investigation of crystal lat-

SOURCE: Simpozium po stekloobraznomu sostoyaniyu. Leningrad, 1962. Stekloobraznoye sostoyaniye, vy*p.1. Katalizirovannaya kristallizatsiya stekla (Vitreous state, no.1: Catalyzing crystallization of glass). Trudy* simpoziuma, v.3, no.1. Moscow, Izd-vo AN SSSR, 1963, 81-83 insert page between p. 80 and 81

TOPIC TAGS: glass, lattice structure, electron microscopy, dislocations, lattice dislocation, crystal lattice, copper phthalocyanin

ABSTRACT: The interlayer spacings were measured and dislocations were observed in copper phthalocyanin crystals by means of an EM-7 electron microscope in which the resolution was increased to 10 Å. Increasing the excitation of the objective to 4000 ampere-turns considerably decreased astigmatism, and spherical and chromatic aberrations. The electron microscope was used at 60 kV with a diaphragm 30-microns in diameter, at a beam current of 20 microamperes. Magnification

Card 1/2

ACCESSION NR: AP4039692

5/0181/64/006/006/1907/1908

'AUTHORS: Meshkov, A.M.; Zhdanov, G. S.

TITLE: Structure of layers of di and triphenylmethane pigments with n p type conductivity

SOURCE: Fizika tverdogo tela, v. 6, no. 6, 1964, 1907-1908

TOPIC TAGS: diphenylmethane, triphenylmethane, pigment, n type conductivity, p type conductivity, electron microscope, electron diffraction, Siemens Elmiskop I microscope

ABSTRACT: Electron microscope and electron diffraction studies were conducted on reflecting and dispersing layers of brilliant green and crystalline violet diphenylmethane and triphenylmethane pigments to ascertain the forms of their aggregations. The Siemens Elmiskop I electron microscope was used. Reflecting layers were produced by precipitation from ethyl alcohol solution on a charcoal plate. After a 20-30 minute exposure to ethyl alcohol vapors (in air and in vacuum), these layers acquired p-type conductivity. An investigation of photographs and electron-diffraction patterns of reflecting layers not exposed to the vapors proved them to be completely uniform and amorphous. After their Card

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ollows that the change plated to the structura coven for metal-free la	re transformed into aggregates of micion patterns represented sharply defin the conductivity from n-type to place in the solid pigment layer yers of phthalocyanin by V. S. My*10962). Orig. art. has: 1 table.	ined rings. It to	
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ACCESSION NR: AP4030634

8/0048/64/028/004/0630/0635

AUTHOR: Venevtsev, Yu.N.; Lyubimov, V.N.; Solov yev, S.P.; Zhdanov, G.S.

TITIE: Calculation of the internal electric fields and their gradients in perovskite compounds with distinctive dielectric properties /Report, Symposium on Ferromagnetism and Ferroelectricity held in Loningrad 30 May to 5 June 1963/

SOURCE: AN SSSR. Izv.Ser.fiz., v.28, no.4, 1964, 630-635

TOPIC TAGS: internal field, crystal internal field, perovakite structure, ferroelectricity, ionic ferroelectricity model, ferroelectric compound

ABSTRACT: For a number of years the authors have been engaged in calculating the internal electric fields in compounds having the perovskite structure and peculiar dielectric properties. The methods of calculation and the results have been reported in a series of papers appearing in Kristallografiy (Crystallography) and Fizika tverdogo tela (Solid State Physics) from 1958 to 1962. The results of these calculations are discussed in the present paper. The calculations were based on the ionic model of a crystal with known or assumed structure. The charges and polarizabilities of the point ions were treated as given quantities, but the induced dipole moments

Card 1/3

ACCESSION NR: AP4030634

were calculated. Calculations were performed for several values of the charge, polarizability, and radius of the ions; reasonable variations of these parameters did not alter the qualitative picture of the fields in the six compounds investigated (lead, barium, calcium and cadmium titanates, sodium tantalate, and lead zircenate). Good agreement was obtained between observed and calculated values of the spontaneous polarization with the value 0.5 for the ionic charge factor. The results of the calculations indicate that NaTaO3 and CdTiO3 are forrielectric materials and that PbZrO3 is a ferrielectric material with nearly antiferroelectric properties. The internal field at the position of the Ti ion was found to vanish in CaTiO3 but to be large in BaTiO3 and PbTiO3. This difference in the fields accounts for the different dielectric behavior of these materials. Because of the strong field at the Ti ion, the conclusion of H.D. Megaw (Acta crystallogr., 5,739,1952; Ibid., 7,187,1954) that the principal factor in ferroelectric transitions of ABO3 type materials must be a sharp increase in the covalent character of the B-O bond is regarded as inadequately grounded. It is concluded that further theoretical and experimental investigation of the possibilities of the ionic model is desirable, and improved calculations of field gradients are promised for the near future. Origiart has: I table.

Card 2/3

ACCESSION NR: AP4030644

8/0048/64/028/004/0683/0690

AUTHOR; Venevtsev, Yu.N.; Zhdanov, G.S.; Roginskaya, Yu.Ye.; Fedulov, S.A.; Ivanova, V.V.; Chkalova, V.V.; Viskov, A.S.; Kapy#shev, A.G.; Bondarenko, V.S.; Lady#zhinskiy, P.B.

TITLE: Investigation of some solid solutions based on the ferroelectric-ferromagnet bismuth ferrite Report, Symposium on Ferromagnetism and Ferroelectricity held in Leningrad 30 May to 5 June 19637.

SOURCE: AN SSSR. Izv. Ser.fiz., v.28, no.4, 1964, 683-690

TOPIC TAGS: ferromagnetism, ferroelectricity, bismuth ferrite, bismuth ferrite solid solution

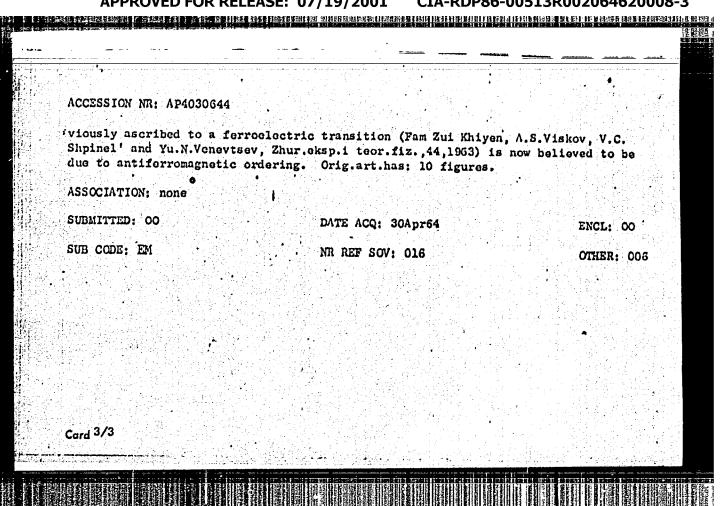
ABSTRACT: By investigating solid solutions of Bi₂O₃·Fe₂O₃ in PbTiO₃, some of the authors, together with others, were able to show the existence of the compound Bi-FeO₃ with the perovskite structure and strong ferroelectric properties. This work is reviewed, and later investigations are reported of the electric and magnetic properties of solid solutions containing BiFeO₃. The solutions discussed are the two-component systems in which one component is BiFeO₃ and the other is LaFeO₃, LaCrO₃,

Card 1/3

ACCESSION NR: AP4030644

PbTiO3, BaTiO3, PbZrO3, LaAlO3, or SrSnO3. Of these solutes, two are ferromagnetic, two are ferroelectric, one is antiferroelectric and two are perovskites with normal magnetic and electric properties. Phase diagrams are given for the PbTiO3, LaCrO3, and BaTiO3 solutions. Curves of magnetization versus temperature are given for various compositions of the LaCrO3 and PbZrO3 solutions, and curves of dielectric constant versus temperature for the LaAlO3, PbZrO3 and BaTiO3 solutions. The Neel point is plotted against composition for all the solutions except those containing SrSnO3, which could not be obtained as a single phase. Extrapolation of the Curie points of the LaAlO3 and PbZrO3 solutions to zero concentration confirmed the high ferroelectric Curie point (about 250°C) of BiFeO3. The weak ferromagnetic properties of Bi-FeO3 persisted in solutions containing high concentrations of materials without peculiar magnetic properties. Particularly interesting is the concentration dependence of the spontaneous magnetization of the LaCrO3 solutions; the magnetization increaseddiscontinuously as the system crossed the boundary from the forroelectric to the antiferroelectric state. The LaFeO3 solutions are said to have behaved similarly; but as these solutions have been discussed in detail elsewhere (Yu.B. Roginskaya, Yu. N. Venevtsev, G.S. Zhdanov and S.A. Fedulov, Kristallografiya, 8, 1963), the data are not given. An anomaly in the Mossbauer spectrum of the SrSnO3 solutions that was pro-

Card^{2/3}



ACCESSION NR: AP4037617

5/0056/64/046/005/1921/1923

AUTHORS: Tomashpol'skiy, Yu. Ya.; Venevtsev, Yu. N.; Zhdanov, G. S.

TITLE: Concerning the connection between special dielectric and magnetic properties in "ferroelectric magnets"

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 5, 1964, 1921-1923

TOPIC TAGS: ferroelectricity, ferromagnetism, dipole moment, dielectric constant, specific magnetization, antiferromagnetism, atomic structure, electric structure, magnetic structure

ABSTRACT: To check on the presence of an internal connection between the electric and magnetic dipole structures of BiFeO₃, which is a

new class of substance combining special dielectric and special magnetic properties ("ferroelectric magnets"). Comprehensive investigations were made of the temperature dependences of the unit-cell para-

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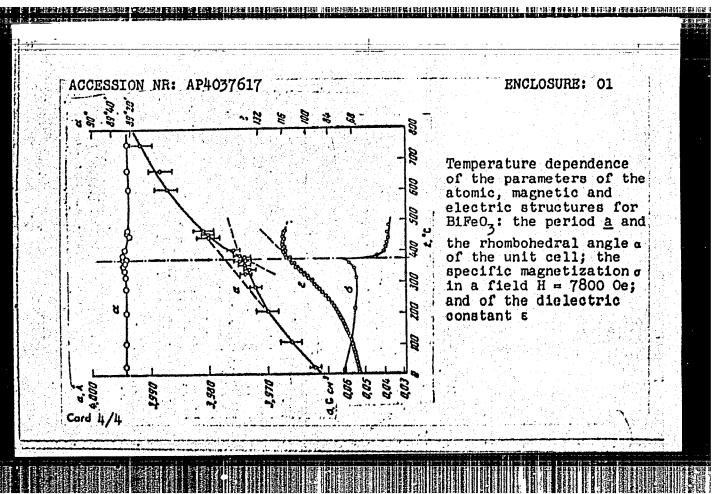
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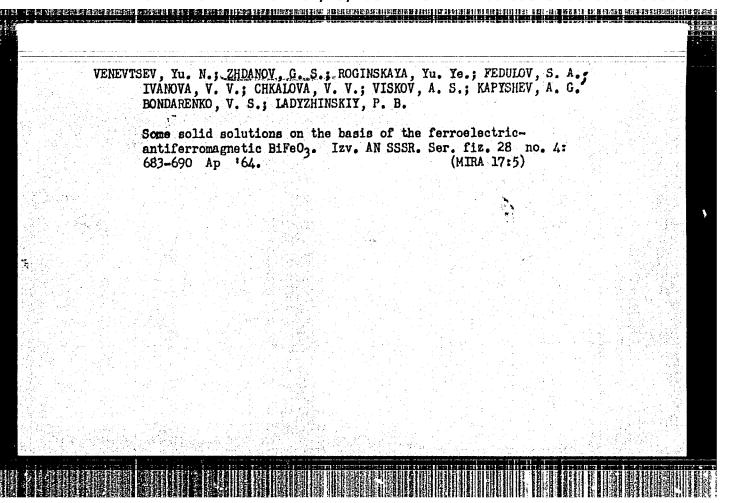
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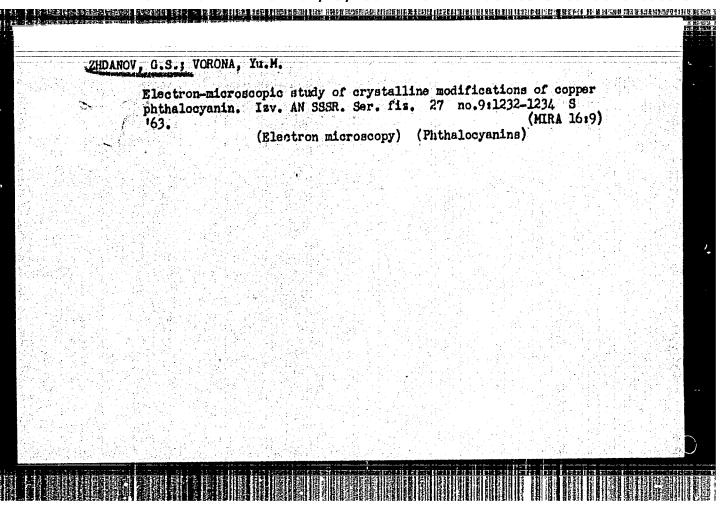
meters, the dielectric constant, and the specific magnetization, with special care in the region of the antiferromagnetic transition. The details of the experiment are described. The noticeable anomalies in the curves of these parameters in the region of the Neel point offer evidence of the existence of a connection between the magnetic, electric, and atomic structures. It is precisely by virtue of this connection that the sharp change in the magnetic structure at the point of antiferromagnetic transition leads to noticeable changes in the electric and atomic structures, as reflected in the anomalies of the corresponding parameters near the Neel point. The observation of one of the manifestations of such an interaction in BiFeO, indicates that this connection is experimentally detectable and can be observed and investigated in a comprehensive fashion, by studying the changes in the magnetic and electric characteristics and of the parameters of the atomic lattice as functions of several extraneous factors (temperature, pressure, fields, etc.). The connection can be regarded both on a unit-cell scale, as well as on a scale

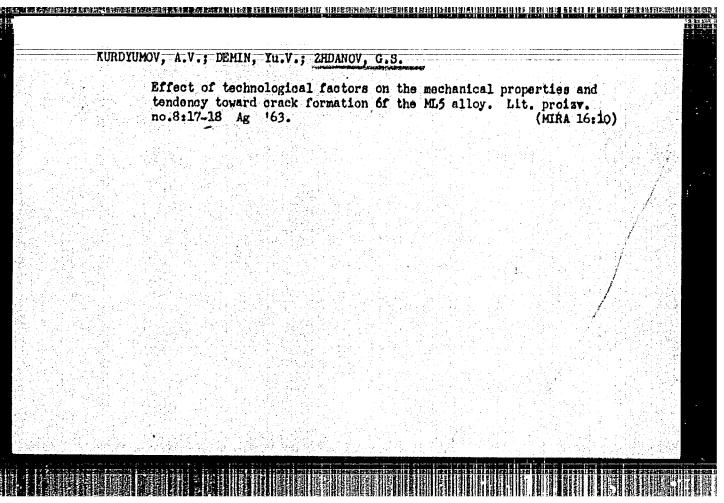
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VORONTSOVA, L.G.; ZVONKOVA, Z.V. ; ZHDANOV, G.S.

Model of the structure of 3.3'-diethylthiccarbocyanine chleride as determined by the statistical method. Kristallografiia 8 ne.3:374-377 My-Je '63. (MIRA 16:11)

1. Fizike-khimicheskiy institut imeni L.Ya. Karpova.

KUZ'MIN, R.N.; ZHURAVLEV, N.N.; ZHDANOV, G.S.

Thermal analysis of the Rh - Bi system. Zhur. neorg. khim. 8 no.8s1906-1914 Ag '63.

1. Moskovskiy gosudarstvennyy universitet, fizicheskiy fakul'tet, kafedra fiziki tverdogo tela.
(Rhodium-bismuth alloys)
(Thermal analysis)

-	ZHDANOV, G. S.	
	"Investigation of some solid solutions based on the ferroelectric- antiferromagnetic FiFeO."	
	report presented at the Symposium on Phase Transitions in Solids, 6th General Assembly, Intl. Union of Crystallography, Rome, Italy, 16-18 Sep 1963.	
	(Karpov Institute of Physical Chemistry, Moscow, USSR)	

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DOROSINSKIY, A.L.; KOLNINOV, O.V.; ZVONKOVA, Z.V.; ZHDANOV, G.S.

X-ray and spectral studies of the complex compounds of cuprous thicoyanate with thiourea and pyridine. Dokl. AN SSSR 150 no.6:1278-1279 Je '63. (MIRA 16:8)

1. Fiziko-khimicheskiy institut im. L.Ya. Karpova. Predstavleno akademikom S.S.Medvedevym. (Copper compounda—Spectra) (Thiocyanates) (Urea)

OZEROV, R.P.; FYKIN, L.Ie.; RANNEV, N.V.; ZHDANOV, G.S.

Meutron diffraction study for the localization of hydrogen atoms in the structure of lithium sulfate monohydrate Liz-SO₂·H₂O. Dokl. AN SSSR 148 no.5:1069-1072 F '63. (MIRA 16:3)

1. Fiziko-khimicheskiy institut im. L.Ia.Karpova. Predstavleno akademikom N.V.Belovym.
(Neutron diffraction crystallography) (Lithium sulfate)
(Hydrogen)

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"Calculation of Internal Electric Fields and Field Gradients in Perceptite
Type Compounds with Special Dielectric Properties."

report presented at the Symposium on Ferroelectricity and Ferromagnetism,
Leningrad, 30 May - 5 June 1963.

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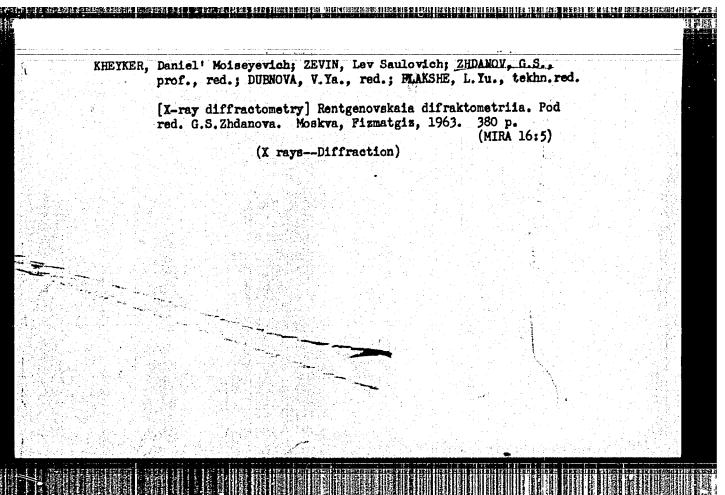
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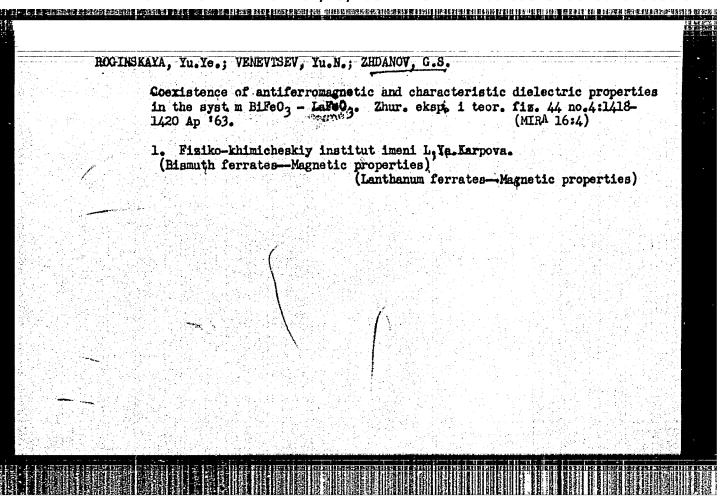
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ZHURAVLEV, N.N., ZHDANOV, G.S.; SMIRNOVA, Ie.M.

Investigating bismuth-platinum alloys in the range of 10 to 50 atomac percent of platinum. Fiz. met. i metalloved. 13 no.4; (MIRA 16:5)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova. (Bismuth-platinum alloys—Metallography) (Phase rule and equilibrium)





SOKLAKOV, A.I.; ZHDANOV, C.S.

X-ray diffraction study of radial distributions in amorphous solid solutions in the system sulfur - P₄S₁₀. Kristallografiia 7 no.6:882-885 N-D '62.

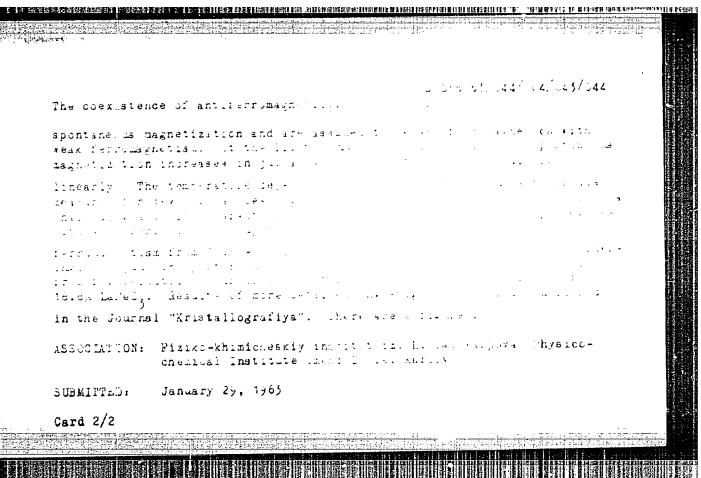
(MIRA 16:4)

1. Nauchnyy institut udobreniy i insektofungisidev imeni Ia.W.Samoylova i Meskovskiy gosudarstvennyy universitet imeni Lomonosova.

(X-ray diffraction **maination*) (Systems (Chemistry))

ZHDANOV, G.S.; VIASENKO, V.I. Computing methods in roentgenography, and the "Kristall" electronic calculating machine. Probl.fiz.khim. no.1:129-138 (MIRA 15:11) 1. Rentgenovskaya laboratoriya Nauchno-issledovatel'skogo fiziko-khimicheskogo instituta im. Karpova. (X rays-Diffraction) (Electronic calculating machines)

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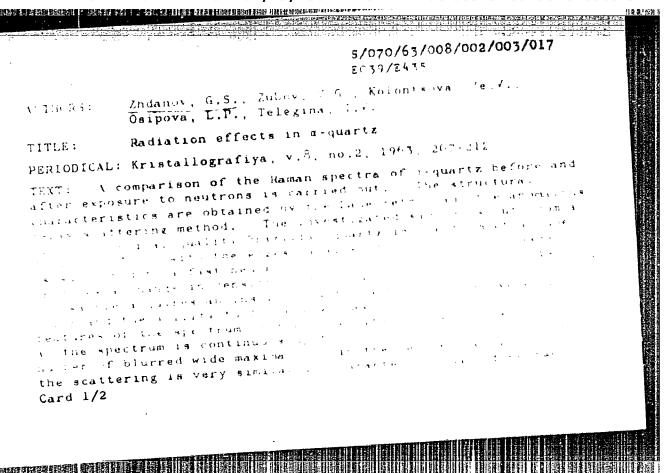


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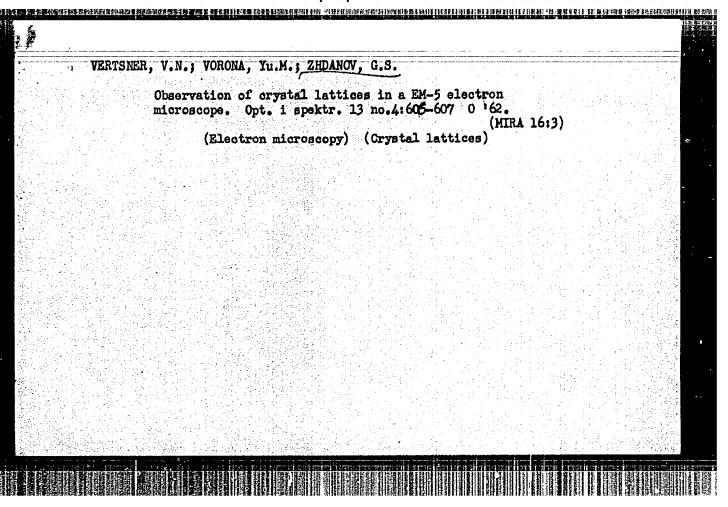
AUTHORS Chetkina U.A., Governor Land Chatter S. Privatal atructors of the trans-PERIODICAL: Kristallografiya, v.o. no. 2. 1965 - 1996. Single crystals of 1.5-dibromanthraquinone in the form of long dark-yellow needles were obtained by slow evaporation from a solution in pyridine and also by sublimation in a normal atmosphere. The parameters of the monoclinic unit cell were found by X-ray measurements to be $a = 11.24 \pm 0.02$, $b = 13.43 \pm 0.03$, $c = 3.93 \pm 0.07$ Å, $\beta = 91^{\circ}23^{\circ} \pm 12^{\circ}$, $\gamma = 598$ Å. The density was calculated from the data to be 2.03 g/cm3 which is close to the value obtained from pyknometric measurements (2.02). The number of molecules in the unit cell is two, and the space group is $c_{2h}^{5} - F2_{1}/a$. The deviation of the bromine and oxygen atoms on different sides of the plane of the anthraquinone ring was found to be 0.158 and=0.130 Å respectively. The bond peoples of Cari 1/2

C - Br and C - O were 2.00 and a Va A respectively.
There are 5 figures and 3 tables.

ASSOCIATION: Fiziko-khimicneskiy analitutim in a first (Physicochemical institute amer) and a karay
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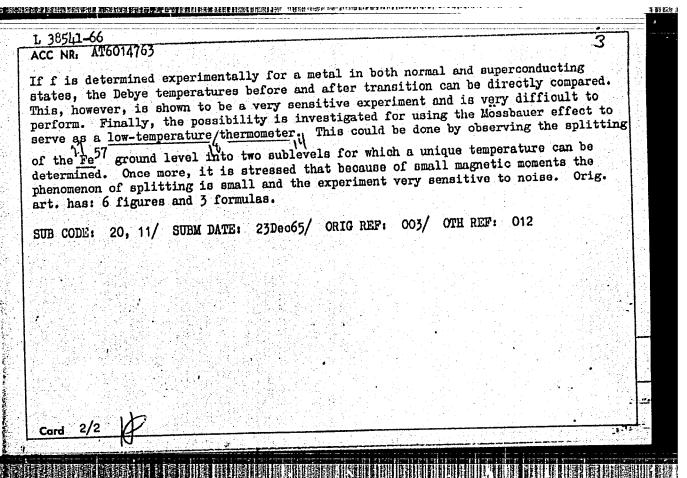
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EWT(m)/EWP(a) - APG015778 SOURCE CODE: UR/0048/66/030/005/0835/0839 Zhdanov, Gl. S.; Vertsner, V. N. ORG: none TITLE: Electron microscope observation of the formation and growth of ice crystals Report, Fifth All-Union Conference on Electron Microscopy held in Sumy 6-8 July 19657 SOURCE: AN SSSR. Izvestiya. Seriya fizichoskaya, v. 30, no. 5, 1966, 835-839 TOPIC TAGS: electron microscopy, crystal growth, ice, water, electric field ABSTRACT: The growth of ice crystals on cold thin carbon and quartz films was observed with an electron microscope. The ico crystals formed by condensation of residual water yapor which was present in the microscope chamber at pressures ranging from 10-5 to 10-3 mm lig. The accelerating potential was 80 kV, the electron beam diameter was 5-10 microns, and the current density in the beam was 0.01 A/cm2. Under these conditions heating of the substrate by the electron beam was negligible. Hexagonal, cubic, and amorphous forms of ico were observed. The hexagonal form was stable over a wide range of temperatures; the cubic form could be obtained free from hexagonal admixture only at high vacuum and temperatures below 145° K. A sharp change in the character of the crystallization took place at 170° K; instead of the formation of large crystals, thore was observed the almost simultaneous appearance of a large number of nuclei which Card 1/2

grew preferentially in the plane of the substrate. On the quartz substrates there were observed filamentary ice structures, which grew rapidly toward the irradiated portion of the film. These structures are ascribed to the action of electric fields due to charging of the quartz substrate by the electron beam. From a comparison of the present observations with those of J.T.Bartlett, A.P.van den Heuval, and B.J. Mason (Z. angew. Math. und Phys., 14, 599 (1963)), it is concluded that the electric field strength exceeded 500 V/cm. The polycrystalline nature of the filamentary structures was clearly evinced on the electron micrographs. The authors thank L.V. Degteva for assistance in preparing the substrates. Orig. art. has: 5 figures.								
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TR/0000/65/000/000/0123/0129 SOURCE CODE: ACC NRL AT6014763 OD/JD AUTHORS: Zhdanov, G. S.; Ibraimov, N. S.; Kuz'min, R. N. B+1 ORG: none TITLE: Application of the Mössbauer effect to the investigation of superconducting alloys SOURCE: Soveshchaniye po metallovedeniyu i metallofizike sverkhprovodnikov. 1st, 1964 Metallovedeniye i metallofizika sverkhprovodnikov (Metallography and physics of metals in superconductors); trudy soveshchaniya. Moscow, Izd-vo Nauka, 1965, 123-129 TOPIC TAGS: superconducting alloy, Mossbauer effect, chemical bonding, tin, isomorphism, hyperfine structure ABSTRACT: A survey is made of the various applications of the Mössbauer effect to the study of superconducting alloys. 10 The method of determining the type of chemical bond is discussed by using the isomorphic shift of Mössbauer lines, or $\delta = E_a - E_e - A [R_u - R_0] [|\Psi_a(0)|^2 - |\Psi_e(0)|^2].$ For white tin the $|\Psi_{\delta_0}(0)|^2$ versus & curve is used to obtain the effective number of s-electrons, quantitatively. Then, utilizing the fact that superconductivity is connected with phonon-electron interactions in a crystal, the Mossbauer effect is used $f(0,T) = \exp{-\left(\frac{E_0^2}{2Mc^2} \cdot \frac{3}{2k0}\right)}.$ to determine f where Card



L 2374-66

ACCESSION NR: AP5020826

UR/0020/65/163/004/0865/0867

AUTHORS: Zhdanov, Gl. S.; Vertsner, V. N.

TITLE: The use of zeolites for decreasing hydrocarbon accumulation in electron microscopes

SOURCE: AN SSSR. Doklady, v. 163, no. 4, 1965, 865-367

TOPIC TAGS: zeolite, electron microscope, hydrocarbon, contamination

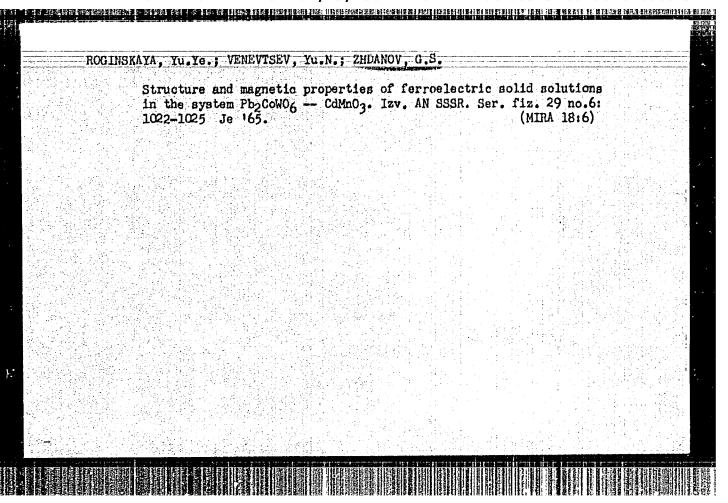
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ABSTRACT: Present measures for prevention of contamination in electron microscopes are deficient chiefly because of the difficulty of introducing the cooled protective diaphragm into such a narrow space—the restricted some of the upper pole piece of the objective lens. The authors suggest a method of decreasing the partial hydrocarbon pressure in the electron microscope by means of zeolites. The zeolites were chosen because of their great adsorbant properties at low pressures, their high mechanical strength, and the simplifity of their require ation, decilite granules were introduced directly into the tabe of the instrument or in a glass extension attached to the tube. Even without cooling, this arrangement proved very effective. Zeolite granules with pore spaces of 10 Å and specific surface of 1000 m²/g were used. The rate of hydrocarbon accumulation was observed at a Cord 1/2

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!	It was found that zeolites give and the technique eliminates the the necessity of using liquid a other than the electron microsoccuntered. The authors express sultations during the work.	e existing difficulti altrogen. Zeolites ma cope when such problem as their thanks to S.	es of manipulation as y also be used for de s of contamination ar P. Zhdanov fo fruiti	vell as evices e en-
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V.	ISKOV, A.S.; VENEVTSEV, Yu.N.; ZHDANOV, G.S.	
	New ferroelectric substances with the structure of perovskite and pyrochlore. Dokl. AN SSSR 162 no.2:323-325 My 165. (MIRA 18:5)	
	1. Fiziko-khimicheskiy institut im. L.Ya.Karpova. Submitted December	
	는 그 것 같아 하셨습니다. 그런 가족 등로 가르다 그 그는 그는 그는 그는 그는 그는 그를 보고 있다. 그 그 물리가 되었다는 것이 하는 것 같아 보고 있다.	
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	불의 문의 물리 하는 물 그렇듯했다. 말로 보고 되어 하는 사람이 하는 것이 말을 때 먹었는 것.	
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	에서 가능하는 사람이 바다 바다 바로 가는 사람이 되었다. 그는 사람이 되었다면 하는 것이 되었다.	
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	Electric resistance 30-31 S '65.	of aluminum-silicon	alloys. Lit. pro	nizv. no.9: IIRA 18:10)

L 13130-66 EWI(1)/EWI(m)/T/EWP(t)/EWP(b)/EWA(c) IJP(c) JI/JG ACC NR: AP6000189 SOURCE CODE: UR/0056/65/049/005/1389/1393 AUTHOR: Ibraimov, N. S.; Kuz'min, R. N.; Zhdanov, G. S. ORG: Moscow State University (Moskovskiy gosudarstvenuyy universitet) TITIE: The Mossbauer effect in compounds of the fluorite type (Irsn ₂ and Ptsn ₂) SOURCE: Zhurnal eksperimental noy i teoreticheskoy firiki, v. 49, no. 5, 1965, 1389-1393 TOPIC TAGS: Mossbauer effect, platinum compound, iridium compound, temperature dependence, resonance absorption, Gamma ray absorption, absorption probability ABSTRACT: This is a continuation of earlier work by one of the authors (Kuz'min, with V. A. Bryukhanov and N. N. Delyagin, ZhETF v. 46, 137, 1964) on the Mossbauer line and its shape. The purpose of the present investigation was to study, for a given type of crystal lattice, the effect of changing the surroundings of the Mossbauer atom, the mass of the atom, and the structure of the 4-band. The IrSn ₂ and bauer atom, the mass of the atom, and the structure of the 4-band. The IrSn ₂ and
where here of amental lattice the effect of changing the surroundings of the
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L 13130-66

ACC NR: AP6000189

Absorption probability (f') and width of resonant line (r), extrapolated to zero thickness

The results showed a decrease in the resonance absorption with increasing temperature, similar to that previously observed for Mg_Sn. The probabilities for recoilless

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Compound	77° K	297* ()	ахр	t. se/sec /
IrSn ₂ PtSn ₂ Mg ₃ Sn	0.73±0.05 0.76±0.05 0.77±0.08	0,39±0,03 0,43±0,03 0,28±0,03	10,76±1,02	-0.05±0.02 +0.35±0.02 0.00

resonance absorption of the 7 quanta and the widths of the absorption lines were determined for both compounds (Table). The results are interpreted on the basis of data concerning the structure and the nature of the chemical bond in these compounds. Tests were also made with IrSn₂-PtSn₂ alloys with 25, 50, and 70 mol. PtSn₂. All three alloys gave single Mossbauer lines. Orig. art. has: 2 figures and 1 table.

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L 12096-66 SWT(m)/EWP(t)/EWP(b) IJF(c) ACC NR: AP6000531 SOURCE CODE: UR /0070/85/010 1000 0862/0868 AUTHOR: Viskov, A.S.; Venevtsev, Yu.N., Zhdanov, G.S.; Onikiyenko, L.D. ORG: Physics-Chemistry Institute im. L. Ya. Karpov (Fiziko-khimicheskiz institut) TITLE: The study of new lead-containing perovskites SOURCE: Kristallografiya, v. 10, no. 6, 1965, 862-868 TOPIC TAGS: perovskite mineral, x-ray diffraction analysis, forroelectric material, antiferroelectricity, mineralogy, mineral, inorganic chemistry ABSTRACT: The authors reported earlier (Dokl. AN SSSR, 158, 1, 86, 1964) on the synthesis of a large number of new lead-containing perovskites. The present article describes the production conditions, methods for x-ray and dielectric studies, and the results of such studies carried out on samples with a starting composition of $Pb(Li_{1/3}^{-1/3}, \eta_{1/3}^{-5/3}, \eta_{1/3}^{-5/3})O_3$. $Pb(Ll_{1/4}^{-1+}B_{1/4}^{-3+}W_{1/2}^{-6+})O_3$, where $B^{3+} \equiv Fe$, La; $Pb(B_{1/4}^{-2+}Mn_{1/4}^{-4+}B_{1/2}^{-5+})O_3$, where B^{2+} = Co, Ni, Zn, Mg, and Cd, B^{6+} = Mb, Ta, and W. In addition, magnetic measurements were carried out in the -170 to 350 - 400C temperature range for samples with compositions $Pb(B_{1/4}^{2+}Mn_{1/4}^{4+}Nb_{1/2}^{5+})O_3$, where $B^{2+} = Co$ and Ni, and $Pb(B_{1/4}^{2+}Mn_{1/4}^{4+}W_{1/2}^{5+})O_3$ Card 1/2 UDC: 548,736:537,226,1

	7113-67 EWT(1)/EWT(m)/EWP(t)/ETI IJP(c) JD/HW/GG NR: AP6029107 SOURCE CODE: UR/0048/66/030/006/0957/0961
AUTH	OR: Zhdanov, G.S.; Ibraimov, N.S.; Kuz'min, R.N.; Chechernikov, V.I.
ORG: 1aku	Physics Department, Moscow State University im. M.V.Lomonosov (Fizicheskiy & l'tet Moskovskogo gosudarstvennogo universiteta)
TITI	E: The Mossbauer effect in the intermetallic compounds Col 4Sn and Nil 4Sn Report Union Conference on the Physics of Ferro-and Antiferromagnetism held 2-7 July 1965
in S	verdlovsk/
SOUR	CE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 6, 1966, 957-961
	C TAGS: Mossbauer spectrum, Mossbauer effect, magnetic susceptibility, cobalt y, nickel allcy,intermetallic compound
ABST	RACT: The present study was undertaken in conjunction with the growing interest
tair	ing ferromagnetic elements. Specifically, there was studied the Mossbauer effect
com	col.4Sn and Ni _{1.4} Sn. The compound specimens were prepared by vacuum melting of the conents, followed by homogenizing anneal in sealed tubes (50 hours at about 800°C)
spec	then slow cooling to room temperature. In the same manner there were prepared imens of mixtures of the two above-mentioned compounds, i.e., representatives of
the	CO'NI-Sn system. Among the last only samples with the NiAs structure were selected the Mossbauer measurements. The Mossbauer effect was studied on the Sn119 nuclei
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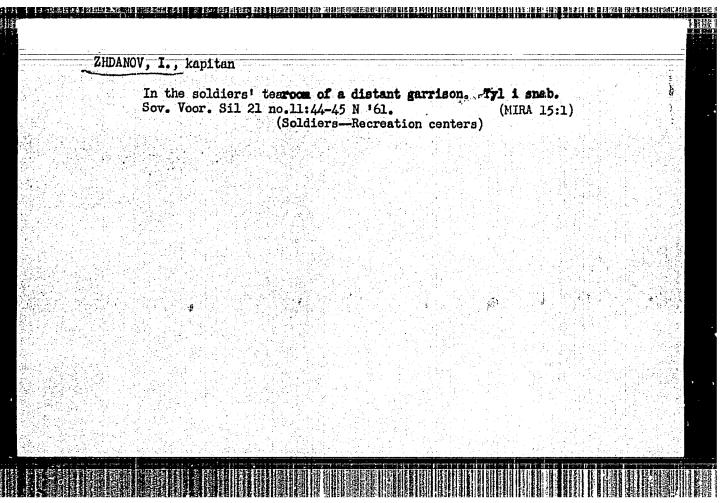
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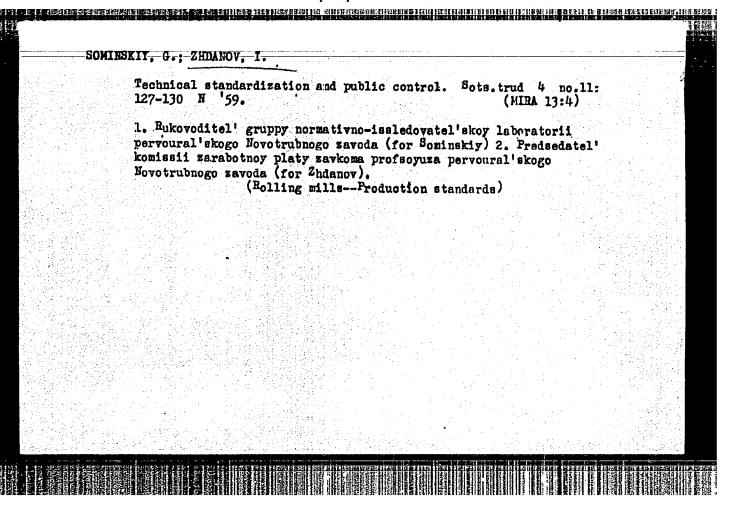
L-07113**-**67-ACC NR: AP6029107 in specimens with a "tin" thickness of 9 mg/cm². The source of the 23.8 keV gamma rays was a 5 mg/cm² thick sample of Mg₂Sn. The measurements were performed with the source at liquid nitrogen temperature. The Mossbauer spectra obtained for Col 4Sn at different temperatures of the absorber and for a series of Col.4Sn-Nil.4Sn solid solutions (0,9,25,50 and 100% Co1.4Sn) are reproduced in figures. Also presented in graphics are the temperature dependences of the reciprocal susceptibility as obtained by the authors and taken from the literature (M.Asanuma, J.Phys. Japan, 17, 300, 1962); the agreement for Co1.4Sn is better than for Ni1.4Sn. The temperature variation of the Mossbauer spectra shows that quadrupole splitting persists up to the temperature of the phase transition, that is, up to the temperature of the break in the reciprocal susceptibility versus temperature curve; above the transition point there is observed only the singlet Mossbauer line. The results are discussed briefly and reasons are hypothesized for the absence of ferromagnetism in the studied intermetallic compounds. Further investigations must be made before a full interpretation of the present results can be offered. Orig. art. has: 4 figures. SUB CODE: 20,07 SUBM DATE: ORIG. REP: OTH REF:

L 004'59-67 EWT(1)/EWP(t)/ETI IJP(c) JD ACC NR: APGO24664 SOURCE CODE: UR/0070/66/011/004/	0511/0519
AUTHOR: Kuz'min, R. N.; Kolpakov, A. V.; Zhdanov, G. S.	311. B
ORIG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosuda TITLE: Scattering of Mossbauer radiation by crystals	rstvonnyy
SOURCE: Kristallografiya, v. 11, no. 4, 1966, 511-519	
TOPIC TAGS: Mossbauer offect, gamma scattering, atomic structure, c structure analysis	rystal
ABSTRACT: The authors present a theoretical analysis of the applications between effect, and especially resonant scattering of quanta by in a crystal, to the investigation of the atomic structure of crystal of the method is reviewed and it is shown how measurement of a sufficient of reflections makes it possible to establish the crystallogre which contain Mossbauer atoms. The experimental data which can serve structural analysis by the Mossbauer-atom method are reviewed. It is Mossbauer method combines the advantages of other structure-analysis addition has a greater flexibility. It also permits an analysis of Card 1/2	s. The theory cleantly large phic planes as a basis of shown that the

biological crys oultios, it is and diffraction analysis. Orig.	to take that		gh there are still r grounds for assuming of other diffraction 18 formulas.	many experimental Of Mossbauer scat I methods of stru	diffia tering otural
SUB CODE: 20/	SUBM DATE:		ORIG REF: 001/	OTH REF! 015	

	Exchange of experienc	e. Zav.lab. 28 no.3:380 '62. (MIRA 15:4)	
	2. Moskovskiy stankos	niyevo-magniyevyy institut (for Zhdanov). troitel'nyy institut (for Denisov, Lu	
	Chao-TSyan).	(Proportioning equipment)	
		선생님 하는데 모든 경기에 되었다. 그는 이 등 전에 기를 가능해 되었다. 당당하는 경기를 하는데	
생물을 받는 것이 하려고요. 물건을 보고 있는 것으로 다른			
		물론 경기 발생 보다면서 보는 사람들이 되는 것이 되었다. 즐길 사람이 발표 보다로 보는 사람들이 되는 것이 되었다.	
		물통한 전에 가를 통해 있다. 아이지를 보고 있다. 이 사는 사는 사용이 다음이다. 일하다. 아이지, 다음을 하고 있다면 하는 것이 되어 있는데 말하고 있다.	
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	에 그 기업 학교 및 이 전 100 100 100 100 100 100 100 100 100 1	발하는 사용하는 이번 하는 이 남편이 있는 결혼들은 발하는 보통하는 이번 하는 이 남편이 있는 결혼들은	
		요 많은 경험하는 이 보이 있는 것으로 되는 것으로 가장 하는 것 같습니다. 나는 사람들은 사람들은 이 사람들은 기계를 하는 것으로 보고 있습니다.	
		사람들은 하는 사람이 그렇게 되었다.	
	역 보통하다 하는 사람들이 보고를 되는 것같다. 보고가 되면 열리는 사람들이 보고 말을 했다. 나	를 내려하는 것으로 하를 모음을 만하는 동네가를 했다.	





YOURGHY

USSR/Cultivated Plants - Grains.

L-2

: Ref Zhur - Biologiya, No 16, 25 Aug 1957, 69216

Author

Zhdanov, I.

Inst Title

: Effect of Timing Sowings, and Norm for Oat Yield in

Kulundin Steppe.

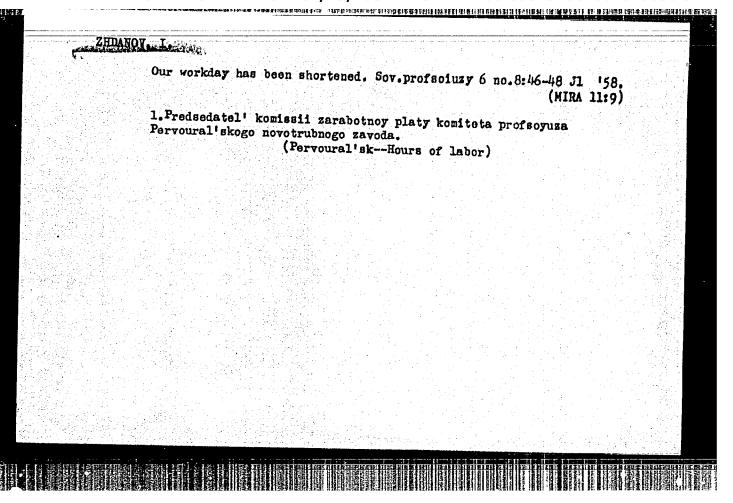
Orig Pub

: S. kh. Sibiri, 1956, No 6, 41-45

Abstract

In field experiments of the Slavgorodsky specimen section of Altai region (1941-1949) and according to data of other experimental institutions in the steppe districts of Western Siberia and Northern Kazakhstan, it was established that the sowing of oats in the third 10-day period of May increases the yield on the average from 14.5 to 17.7 centners/hectare, shortens the vegetative period, and increases the absolute weight of grain. The best norm for sowings is 3 million germinating seeds per hectare.

Card 1/1



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	Public control over the operation of 76 Ag *56.	f the wage system. So	ots.trud no.8:73- (MIRA 9:10)	
	l. Predsedatel komissii sarabotnoy trubnogo savoda.	•		
	(Hetal industries-)	Production standards)		
	National Control of the State			
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	그렇게 얼마나 얼마를 하는데 뭐요.			

IHDANOV, I.A.

USSR / Cultivated Plants. Cereals.

И

Abs Jour : Ref Zhur - Biol., No 8, No 34640

Author : Zhdanov, I. A.

Not given Inst

: A Proposal for the Revision of Technical Agrono-Title my Methods and the Variety Zoning of Oats in

the Steppe of Kulundinsk.

Orig Pub : Zemledeliye, 1957, No 2, 18-22.

: In the rayons of Kulundinskiy steppe, the yield Abstract of cats could be considerably increased by the

following measures: sowing towards the end of May; replacement of the rayoned seed variety Pobeda by seeds of the variety Omskiy 6922 which are less gluma-coous by some 4 to 5% and have a vegetative pe-riod shorter by 3 to 5 days than the variety Pobeda; sowing norm: 3 million seeds per hectare. --

Yu. A. Pashkovskiy.

Card 1/1

34

Investigatin of work on r 172-177 '61	g the wear resi olling mills.	stance of be Izv. vys. uc	aring textoli heb. zav.; ch	te in condicern. met. (MIRA	no.2:
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1981 1982 1982 1984 2004 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 2004 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985		(14) 1 - 31 West H. (14)			
	기를 선물하고 있다. (1) 기를 보기하는 것 같습니다.				

ZHOSNOV, L.A., akademik Drief results, methods, sud tasks of sunflower breeding. Agrobiologiia no.6:812-923 N-D '65. (MIRA 18:12) 1. Donakaya opyimaya etantsiya Veseovuznogo nauchno-iseledovatel-skogo instituta maslichnykh kul'tur, Rostov-na-Donu, Vsesovuznaya akademiya sel'skokhozyaystvennykh rauk imeni V.I.Lenina.

SOV/112-58-1-500

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1958, Nr 1, pp 73-74 (USSR)

AUTHOR: Zhdanov, I. A., and Zhmarev, G. S.

TITLE: New Porcelain Low-Voltage Grain Filler Fuse Cutouts
(Novyye farforovyye nizkovol'tnyye nasypnyye predokhraniteli)

PERIODICAL: V sb.: Raboty M-va elektrotekhn. prom-sti SSSR po mekhaniz. i avtomatiz. nar. kh-va, Z. M., 1956, pp 164-166

ABSTRACT: A description, a picture, and a mounting sketch with dimensions are presented of a new line of low-voltage porcelain grain-filler fuse cutouts, PN2 series, manufactured by Kursk Factory of Low-Voltage Equipment for rated currents of 100, 250, 400, and 600 amp. The new fuse cutouts are intended for AC standard-frequency installations up to 500 v, and differ from the older PNR line of the same factory in their smaller size, in procelain-tube construction, contact blades, and fusible links, and also in their higher interrupting rating. The new cutout weighs 27.6-41.8% less than the older type, depending on the current rating. Also, it requires less steel and copper than the

Card 1/2

SOV/112-58-1-500

New Porcelain Low-Voltage Grain-Filler Fuse Cutouts

older one. Unlike conventional round cross-section porcelain tubes, the new cutout has a square cross-section tube. Under test conditions, the new cutouts repeatedly interrupted 3-phase currents of 300-27,000 amp rms at 440 v, at power factor 0.12-0.2. The new cutout has a detachable handle for replacing fuse units.

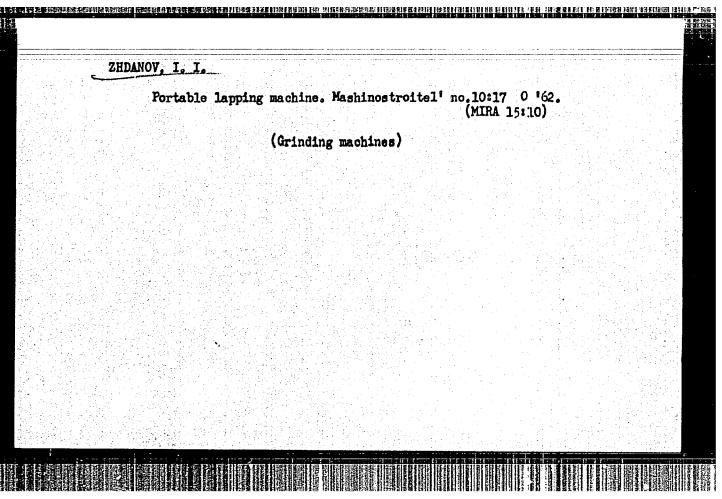
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AVAILABLE: Library of Congress

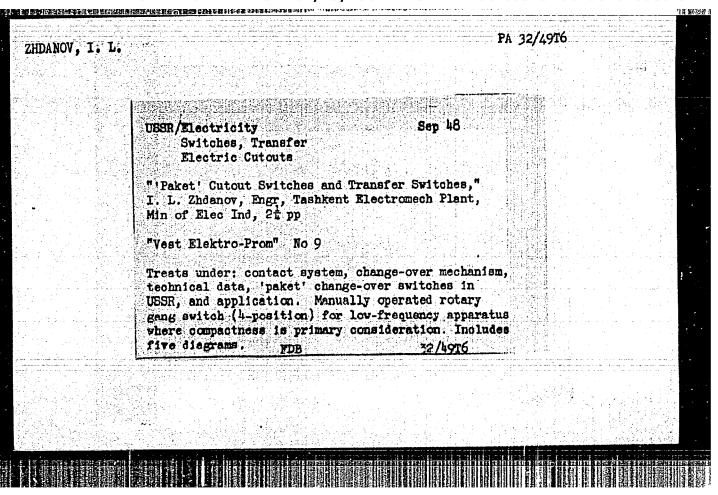
1. Fuses (Electrical) -- Performance 2. Electric relays -- Design

3. Electric relays -- Test results

Card 2/2



The "Krasnyi Kozhevnik" Leather Factory in Torzhok the production technology. Kozhobuv.prom. 5 no F '63.	improves .2:32-35 (MIRA 16:5)
1. Glavnyy inzh. Torzhokskogo kozhevennogo zavoda *kozhevnik*.	Kraenyy
(TorzhokLeather industry)	
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ZHDANOV	Automatic line for the processing of	line for the processing of industrial wool. (MIRA 15:5) 4 no.4:20-21 Ap '62. y inzhener Torzhokskogo kozhevennogo zavoda "Krasnyy (Automatic control)		
	1. Glavnyy inzhener Torkhokskogo kozhevnik". (Leather industryBy-products)	(Automatic control)		
	고 있습니다. 경우 현실 등 전환 전 10 등 보급하다. 전 등 전 등 교육 경기 대비 기급하다는 보고 전 기계를 보고 되는 것이 되었다.			